| Inde | ex of Cl | aims |
|------|----------|------|
|      |          |      |

| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|---|
| 10/699,891              | YAMADA ET AL.                           |
| Examiner                | Art Unit                                |

| / | Rejected | - | (Through numeral)<br>Cancelled |
|---|----------|---|--------------------------------|
| = | Allowed  | + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

Bobbak Safaipour

| Α | Appeal   |
|---|----------|
| 0 | Objected |

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| Cle      | im       | _  |  |              |  | 201  |              |          |                | _        |   | Cla  | nim      | _            | _            | - |  |  |
|----------|----------|--|--|--------------|--|--|--------------|----------|----------------|----------|---|--|----------|--------------|--------------|---|--|--|
| Cla      | im       |  | _  |              | _  | Date   | =            | _        |                | _        |   | Cla  | IIIN     |              | _            | T |  |  |
| _        | Original | 2  |  |              |  |  |              |          |                |          |   | 16   | Original |              |              | ١ |  |  |
| Final    | <u>.</u> | 5/22/07  |  |              |  |  |              |          |                |          |   | Final  | igi      |              |              | l |  |  |
| "        | ŏ        | 5,   |  |              |  |  |              |          |                |          |   | ш.   | ō        |              | l            | l |  |  |
|          |          | 1  | _  |              |  | ⊢  | _            |          | $\vdash$       | _        |   |  | E4       |              | -            | ł |  |  |
| ⊢        | 1 2      | 7  | H  | <u> </u>     | $\vdash$   | ⊢  | H            |          | -              |          |   |  | 51<br>52 |              | $\vdash$     | ł |  |  |
|          |          | 7  | H  | _            | $\vdash$   | ⊢  | ⊢            | _        |                |          |   |  |          |              | ⊢            | ł |  |  |
| ├─       | 3        | 1  | _  |              | H  | ⊢  | $\vdash$     |          |                | -        |   |  | 53<br>54 |              | <del> </del> | ł |  |  |
|          | 5        | 1  | $\vdash$   |              |  | ├  | ├            | -        | H              |          |   |  | 55       |              | $\vdash$     | ł |  |  |
|          | 2        | 7  | H  |              | _  | ⊢  | -            | -        |                | _        |   |  | 56       | _            |              | ł |  |  |
| <u> </u> | 6<br>7   | 1  |  |              |  |  | $\vdash$     |          |                |          |   |  | 57       |              | <u> </u>     | ł |  |  |
|          | 8        | 1  | H  |              | -  | ⊢  |              | _        |                |          |   |  | 58       | _            | -            | ł |  |  |
| <b>—</b> | 9        | 1  |  | -            |  | -  | H            | _        |                | _        |   |  | 59       | -            | $\vdash$     | ł |  |  |
|          | 10       | 1  | -  | ⊢            |  |  | ┝            | _        | -              | _        |   |  | 60       | $\vdash$     | $\vdash$     | ١ |  |  |
| <u> </u> | 11       | 1  |  | -            | -  | ┢━   | H            | $\vdash$ | Н              | _        |   |  | 61       |              | $\vdash$     | ł |  |  |
| <u> </u> | 42       | 1  | -  |              | ⊢  | ⊢  | ┢            | <u> </u> | <del></del>    |          |   |  |          | $\vdash$     |              | ł |  |  |
| -        | 12<br>13 | \ \ \  | ├-   | <del> </del> |  | -  | ┢            | _        | <u> </u>       |          |   |  | 62<br>63 | $\vdash$     | ┢            | ł |  |  |
|          | 13       |  | <u> </u>   | ⊢            | ┝  | ⊢  |              |          |                | _        |   |  | 64       | -            |              | 1 |  |  |
| <u> </u> | 14       | -  | ⊢  | ⊢            | ┝  | -  | -            | $\vdash$ | $\vdash$       |          |   |  | 65       | Н            | H            | ł |  |  |
| $\vdash$ | 15<br>16 | -  | ├  |              | ⊢  | ⊢  | $\vdash$     | ⊢        | $\vdash$       | _        |   |  | 66       |              | ┢            | ł |  |  |
| <u> </u> | 17       |  | H  | ⊢            |  | $\vdash$   | ⊢            | ┝        | -              | _        |   |  | 67       |              | <u> </u>     | 1 |  |  |
|          | 18       | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$   | ⊢  | <del> </del> |          | -              |          |   |  | 68       | -            |              | ł |  |  |
|          | 19       | $\vdash$   | -  | -            | -  | -  | ⊢            | ⊢        | -              | -        |   | <del></del>                                      | 69       | $\vdash$     | $\vdash$     | ł |  |  |
|          |          | ⊢  | -  | ⊢            | ⊢  | $\vdash$   | ⊢            | $\vdash$ | -              | -        |   | <del>                                     </del> | 70       | $\vdash$     | $\vdash$     | ł |  |  |
| -        | 20       | ⊢  | ├  |              | ⊢  | $\vdash$   | ⊢            | ┝        |                | _        |   | $\vdash$   | 70<br>71 |              | $\vdash$     | ł |  |  |
| <u> </u> | 21       | ⊢  | ⊢  | $\vdash$     | ⊢  | ⊢  | ⊢            | ├        |                | $\vdash$ |   |  | 72       | $\vdash$     | $\vdash$     | ł |  |  |
|          | 23       | $\vdash$   | -  |              | -  | ⊢  | $\vdash$     | ⊢        |                | -        | 1 |  | 73       | -            |              | ł |  |  |
|          | 24       | $\vdash$   | ├  | -            | ├─   | ⊢  | ⊢            | ├        |                |          |   | <u> </u>   | 74       | -            | $\vdash$     | ł |  |  |
| <u> </u> | 25       | -  | ⊢  | $\vdash$     | ⊢  | $\vdash$   | -            |          | -              | ⊢        | ł | <b></b>  | 75       |              | $\vdash$     | ł |  |  |
|          | 26       | ⊢  | ⊢  | ⊢            | ┝  | ├  | ┢            | $\vdash$ | $\vdash$       | $\vdash$ |   | <b></b>  | 76       | $\vdash$     | -            | ł |  |  |
|          | 27       | H  | $\vdash$   | ┢            | -  | ╁  | $\vdash$     | $\vdash$ | ⊢              | -        |   |  | 76<br>77 | -            | -            | t |  |  |
| ⊢        | 28       | ┢╾   | ┢  | $\vdash$     | $\vdash$   | $\vdash$   | ╌            | -        | -              | ┢        |   | _  | 78       |              | $\vdash$     | t |  |  |
|          | 29       | ┢  | ╁  | -            | -  | <del>                                     </del> | ╁            | $\vdash$ | ┢              | ┢        |   |  | 79       | H            | $\vdash$     | t |  |  |
|          | 30       | $\vdash$   | -  | -            | H  | $\vdash$   | ┢            | H        | ┢              | -        |   |  | 80       | <del> </del> |              | t |  |  |
|          | 31       | ┢  | ╁  | $\vdash$     | ┢╾   | ┢  | -            |          | $\vdash$       | ┢        |   |  | 81       | $\vdash$     | _            | 1 |  |  |
| <b>—</b> | 32       | $\vdash$   | ┢  | ┢            | ┢  | ╁╌   | 1            | -        | ┢              | H        |   |  | 81<br>82 | H            |              | 1 |  |  |
| -        | 33       | 一  | ├─   |              | <del>                                     </del> | <del>                                     </del> | 1            | 1        | ┢              | _        | 1 |  | 83       | Ι.           | ┢            | 1 |  |  |
|          | 34       | Н  | t-   | $\vdash$     | $\vdash$   | 1  | $\vdash$     |          | <del>  -</del> | Т        | 1 |  | 84       | Ė            | Г            | 1 |  |  |
| $\vdash$ | 35       | <del>                                     </del> | $\vdash$   | $\vdash$     | Η-   | T  | 1            | <u> </u> | 1              | Т        | İ | <u> </u>   | 85       | $\vdash$     | Г            | 1 |  |  |
|          | 36       | 1-   | T  | $\vdash$     |  |  |              | <u> </u> | Г              | Г        | 1 |  | 86       |              | Г            | 1 |  |  |
| _        | 37       | $\vdash$   | T  | $\vdash$     | $\vdash$   | 1  | $t^-$        | $\vdash$ | lТ             | Г        | 1 |  | 87       |              | Ė            | 1 |  |  |
| $\vdash$ | 38       | $\vdash$   | <del>                                     </del> | T            |  |  | T            | T        | T              | Т        | 1 | <del>                                     </del> | 88       | Т            | Г            | 1 |  |  |
|          | 39       |  | T  | $\vdash$     | T  | 1  | 1            | Г        |                |          | 1 |  | 89       |              | Г            | 1 |  |  |
|          | 40       | $\vdash$   |  | 1            | T  | T  | T            | Г        | Г              |          | 1 |  | 90       |              | Г            | 1 |  |  |
|          | 41       | 1  |  | Г            | T  | 1  | T            | Г        |                |          | 1 |  | 91       |              | Г            | 1 |  |  |
|          | 42       | Г  | 1  | Ι_           | Г  |  |              |          |                | 1        | 1 |  | 92       | Г            | Г            | 1 |  |  |
|          | 43       | П  | Π  | T            | П  | Τ  | 1            |          |                |          | 1 |  | 93       |              | Г            | 1 |  |  |
|          | 44       | Т  |  | T            | 1  | Т  | $\vdash$     | Г        | Г              |          | 1 |  | 94       | Π            |              | 1 |  |  |
|          | 45       | Т  | T  | 1            | Π  | 1  | T            |          | Г              | Г        | 1 |  | 95       |              | Γ            | 1 |  |  |
|          | 46       |  | П  | П            |  | Π  | 1            |          |                | Г        | 1 |  | 96       |              |              | 1 |  |  |
|          | 47       | T  |  |              |  |  |              |          |                |          | ] |  | 97       |              |              | 1 |  |  |
|          | 48       | L  |  |              |  |  |              |          |                |          |   |  | 98       |              |              |   |  |  |
|          | 49       |  |  |              |  |  |              |          |                |          | 1 |  | 99       | L            |              |   |  |  |
|          | 50       |  |  |              |  |  | L            | 匚        | 匚              | <u> </u> | ] |  | 100      | L            |              |   |  |  |
|          |          |  |  |              |  |  |              |          |                |          |   |  |          |              |              | 1 |  |  |

| Claim         |                      | Date     |          |          |          |          |  |  |  |              |  |
|---------------|----------------------|----------|----------|----------|----------|----------|--|--|--|--------------|--|
| Final         | Original             |          |          |          |          |          |  |  |  |              |  |
|               | 51                   |          |          |          |          |          |  |  |  |              |  |
|               | 51<br>52             |          |          |          |          |          |  |  |  |              |  |
|               | 53                   |          |          |          |          |          |  |  |  |              |  |
|               | 54<br>55             |          |          |          |          |          |  |  |  |              |  |
|               | 55                   |          |          |          |          |          |  |  |  |              |  |
|               | 56                   |          |          |          |          |          |  |  |  |              |  |
|               | 57<br>58             |          |          |          |          |          |  |  |  |              |  |
|               | 58                   |          |          |          |          |          |  |  |  |              |  |
|               | 59                   | Щ        | _        |          |          | _        |  |  |  |              |  |
|               | 60                   | Ш        | _        |          |          |          | _  |  |  |              |  |
|               | 61                   | Ш        |          |          |          |          |  | _  | _  |              |  |
|               | 62                   | Ш        |          |          |          |          |  |  |  |              |  |
| <u> </u>      | 63                   |          |          |          |          |          |  |  | _  |              |  |
|               | 64                   | Н        | _        |          | _        | _        |  |  |  |              |  |
|               | 65                   | Н        | _        |          |          |          | _  | Н  |  | -            |  |
| <u> </u>      | 66<br>67             | Н        |          | _        |          |          | _  |  | _  | _            |  |
| -             | 60                   | Н        |          | _        | _        |          | _  | -  |  | _            |  |
| <u> </u>      | 68                   | H        |          | _        | _        |          |  |  |  |              |  |
| <del> </del>  | 69<br>70             | Н        |          | _        | -        |          |  |  |  | <u> </u>     |  |
| <u> </u>      | 70                   | Н        |          | $\vdash$ | $\vdash$ |          | -  | $\vdash$   |  | _            |  |
|               | 72                   | Н        |          |          | -        |          |  | _  |  | ┝            |  |
| <u> </u>      | 71<br>72<br>73       | ┝        |          |          | $\vdash$ | -        |  |  |  | -            |  |
| <u> </u>      | 74                   | Н        |          |          | $\vdash$ | _        |  | _  |  | _            |  |
|               | 74<br>75             | H        | _        | _        | _        | -        | _  |  |  | $\vdash$     |  |
|               | 76                   | Н        |          |          | _        |          |  |  | _  | <del> </del> |  |
|               | 77                   |          |          |          |          |          |  | _  |  |              |  |
| <u> </u>      | 76<br>77<br>78<br>79 |          |          |          |          |          |  |  |  |              |  |
|               | 79                   |          |          |          |          | _        |  |  |  |              |  |
|               | 80                   |          |          |          |          |          |  |  |  |              |  |
|               | 81                   |          |          |          |          |          |  |  |  |              |  |
|               | 82                   |          |          |          |          |          |  |  |  |              |  |
|               | 83                   |          |          |          |          |          |  |  |  |              |  |
|               | 84                   |          |          |          |          |          |  |  |  | L            |  |
| <u></u>       | 85                   |          |          |          |          | _        |  |  |  |              |  |
|               | 86                   |          |          |          |          |          |  |  |  | L            |  |
| <u></u>       | 87                   |          |          | _        |          |          | <u> </u>   | <u>_</u>   |  | L            |  |
|               | 88                   |          |          |          |          |          |  |  | _  | <u> </u>     |  |
|               | 89                   |          | _        | ļ        |          |          | <u> </u>   | <u> </u>   | L  | <u> </u>     |  |
| ļ             | 90                   | _        | _        | <u> </u> | <u> </u> |          |  | <u> </u>   | <u> </u>   | ├            |  |
|               | 91                   | $\vdash$ | _        | -        | $\vdash$ | -        | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     |  |
| <u> </u>      | 92                   | $\vdash$ | _        | $\vdash$ | <u> </u> | <u> </u> | ├  | ├  | -  | $\vdash$     |  |
| -             | 93<br>94             | $\vdash$ | <b> </b> |          |          | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     |  |
| -             | 95                   | $\vdash$ | $\vdash$ | -        | -        | $\vdash$ | ├  | -  | $\vdash$   | $\vdash$     |  |
| $\vdash$      | 96                   | -        |          | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$   | -  |  | $\vdash$     |  |
| -             | 97                   | -        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ |  | -  | <del>                                     </del> | ┢            |  |
| $\vdash$      | 98                   |          | $\vdash$ | $\vdash$ |          | -        | <del>                                     </del> | -  | <del> </del>                                     | $\vdash$     |  |
|               | 99                   |          | $\vdash$ | Г        | Г        | Т        | Г  | T  |  |              |  |
| $\overline{}$ | 1                    |          | -        | -        | -        | ┢        | <del></del>                                      | <del>                                     </del> | -  | -            |  |

| Cli         | aim                             | Date   |  |              |              |              |  |               |          |               |  |  |
|-------------|---------------------------------|--|--|--------------|--------------|--------------|--|---------------|----------|---------------|--|--|
| <del></del> |                                 |  |  |              |              |              |  |               |          |               |  |  |
| Final       | Original                        |  |  |              |              |              |  |               |          |               |  |  |
|             | 101<br>102                      |  |  |              |              |              |  |               |          |               |  |  |
|             | 102                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 103                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 104                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 104<br>105                      |  |  |              |              |              |  | $\overline{}$ |          | $\overline{}$ |  |  |
| $\vdash$    | 106                             |  | _  | П            |              |              |  |               |          |               |  |  |
|             | 107                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 108                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 109                             |  |  |              |              |              |  |               |          | П             |  |  |
|             | 110                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 111                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 112                             |  |  |              |              |              |  |               |          | П             |  |  |
|             | 112<br>113                      | Г  |  | П            |              |              |  |               |          | $\Box$        |  |  |
|             | 1114                            | Т  | Г  | М            | _            |              | М  | $\overline{}$ |          | $\vdash$      |  |  |
|             | 115<br>116<br>117               | Т  |  |              |              |              |  |               |          |               |  |  |
|             | 116                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 117                             |  |  |              |              |              |  |               |          | П             |  |  |
|             | 118                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 118<br>119                      |  |  |              |              |              |  |               |          |               |  |  |
|             | 120                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 121                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 122                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 121<br>122<br>123<br>124<br>125 |  |  |              |              |              |  |               |          | Ш             |  |  |
|             | 124                             | _  | L  |              |              |              |  |               |          | Ш             |  |  |
| <u> </u>    | 125                             | _  |  | _            |              | Ш            |  | _             | _        | Ш             |  |  |
|             | 126<br>127<br>128               | <u> </u>   |  | _            |              | H            |  |               | <u> </u> | $\vdash$      |  |  |
|             | 127                             | ⊢  |  | -            |              |              |  | -             | _        | Н             |  |  |
|             | 128                             | ⊢  | _  | -            | -            | Н            |  |               | _        | Н             |  |  |
|             | 129                             | ⊢  | $\vdash$   |              |              | -            | $\vdash$   |               | ⊢        | Н             |  |  |
| -           | 129<br>130<br>131               | ├─   | -  | -            | _            | ├─           | $\vdash$   |               | -        | Н             |  |  |
|             | 132                             | ⊢  | $\vdash$   |              | -            | ├            | ┢  | $\vdash$      | $\vdash$ | Н             |  |  |
| <b>—</b>    | 132<br>133                      | -  | ⊢  | $\vdash$     | $\vdash$     | $\vdash$     | -  |               | ┢        | Н             |  |  |
| <del></del> | 134                             | $\vdash$   | $\vdash$   |              |              | -            | ┢  | $\vdash$      | $\vdash$ | Н             |  |  |
|             | 135                             | $\vdash$   | <del>                                     </del> |              | <del> </del> | $\vdash$     | $\vdash$   | $\vdash$      | $\vdash$ | H             |  |  |
| -           | 135<br>136                      | <del>                                     </del> | -  |              | Η-           | 一            | Н  | $\vdash$      | 一        | Н             |  |  |
| -           | 137                             | _  | ┢  | $\vdash$     | $\vdash$     | $\vdash$     | <del>                                     </del> | $\vdash$      | -        | Н             |  |  |
|             | 138                             | $\vdash$   | $\vdash$   | T            | $\vdash$     | _            | _  | $\vdash$      |          | Н             |  |  |
|             | 139                             | $\vdash$   | $\vdash$   |              | -            | -            |  |               |          | П             |  |  |
|             | 140                             |  | Г  |              |              |              |  |               |          |               |  |  |
|             | 141                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 142                             |  |  |              |              |              |  |               |          |               |  |  |
|             | 143                             | Ľ  | Ľ  | L            | L            | <u> </u>     | <u> </u>   | L             | _        | $oxed{\Box}$  |  |  |
| <u></u>     | 144                             | _  | _  | <u> </u>     | L            | _            | _  | <u> </u>      | L        |               |  |  |
|             | 145                             | <u> </u>   | <u> </u>   | <u> </u>     | <u> </u>     | -            | -  | <u> </u>      | _        |               |  |  |
| -           | 146                             | ├-   | <del> </del>                                     | ⊢            | ├            | -            | <del> </del>                                     | $\vdash$      | $\vdash$ | $\vdash$      |  |  |
|             | 147                             | ├-   | <u> </u>   | <del> </del> |              | <del> </del> |  | ⊢             | ├-       | $\vdash$      |  |  |
| -           | 148<br>149                      | ļ  | ╁  | -            | $\vdash$     | ⊢            | ⊢  | -             | -        | -             |  |  |
| <b>-</b>    | 150                             | $\vdash$   | $\vdash$   |              | $\vdash$     | -            | <del>                                     </del> | -             | -        |               |  |  |
| Ь           | 100                             |  |  |              | Щ_           | Щ.           | L  | <b></b>       | ٠        | Щ.            |  |  |